

Service Manual

Stereo Integrated Amplifier

Amplifier
SU-X840

Color

(K) Black Type



Color	Areas
(K)	[EX] Continental Europe
(K)	[EH] Holland
(K)	[EB] Belgium
(K)	[EF] France
(K)	[EK] United Kingdom
(K)	[EG] F.R. Germany
(K)	[EW] Switzerland
(K)	[Ei] Italy
(K)	[XL] Australia
(K)	[XA] Asia, Latin America, Middle Near East, Africa & Oceania
(K)	[PA] East PX.
(K)	[PE] European Military
(K)	[XB] Saudi Arabia

SPECIFICATIONS (DIN 45 500)

■ AMPLIFIER SECTION

DIN power output	2 × 50W (8Ω)
1 kHz THD: 1%	
Total harmonic distortion	
rated power at 1 kHz	1% (8Ω)
half power at 1 kHz	0.009% (8Ω)
Residual hum and noise	0.4 mV
Damping factor	30 (8Ω)
Input sensitivity and impedance	
PHONO	3 mV/47kΩ
TUNER, CD, AUX, TAPE 1, TAPE 2	
	200 mV/22kΩ
MIC	1.2 mV/10kΩ
Maximum input voltage (1 kHz, RMS)	
PHONO	120 mV
MIC	40 mV
S/N (rated power 8Ω)	
PHONO	73 dB (IHF, A, 79 dB)

TUNER, CD, AUX, TAPE 1, TAPE 2

	84 dB (IHF, A: 83 dB)
Frequency response	
PHONO	RIAA standard curve ±0.8 dB (30 Hz~15 kHz)
TUNER, CD, AUX, TAPE 1, TAPE 2	
	10 Hz~50 kHz (−3 dB)
Tone controls	
BASS	50 Hz, +10 dB, −10 dB
TREBLE	20 kHz, +10 dB, −10 dB
Muting	−20 dB
Super bass	70 Hz, +10 dB
Output voltage	
TAPE 1, TAPE 2, REC OUT	200 mV
Channel balance, AUX 250 Hz~6,300 Hz	±1.0 dB
Channel separation, AUX 1 kHz	60 dB
Headphones output level and impedance	
	435 mV/340Ω

Load impedance	
MAIN	8Ω~16Ω
SURROUND	8Ω~16Ω
■ GENERAL	
Power consumption	230W
Power supply	
For continental Europe	AC 50 Hz/60 Hz, 220V
For others	AC 50 Hz/60 Hz, 110V/127V/220V/240V
Dimensions (W×H×D)	360 × 103 × 300 mm (14-3/16" × 4-1/16" × 11-13/16")
Weight	5.0 kg (11 lb.)

- Notes:
- Specifications are subject to change without notice.
Weight and dimensions are approximate.
 - Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

Specifications are subject to change without notice for further improvement.

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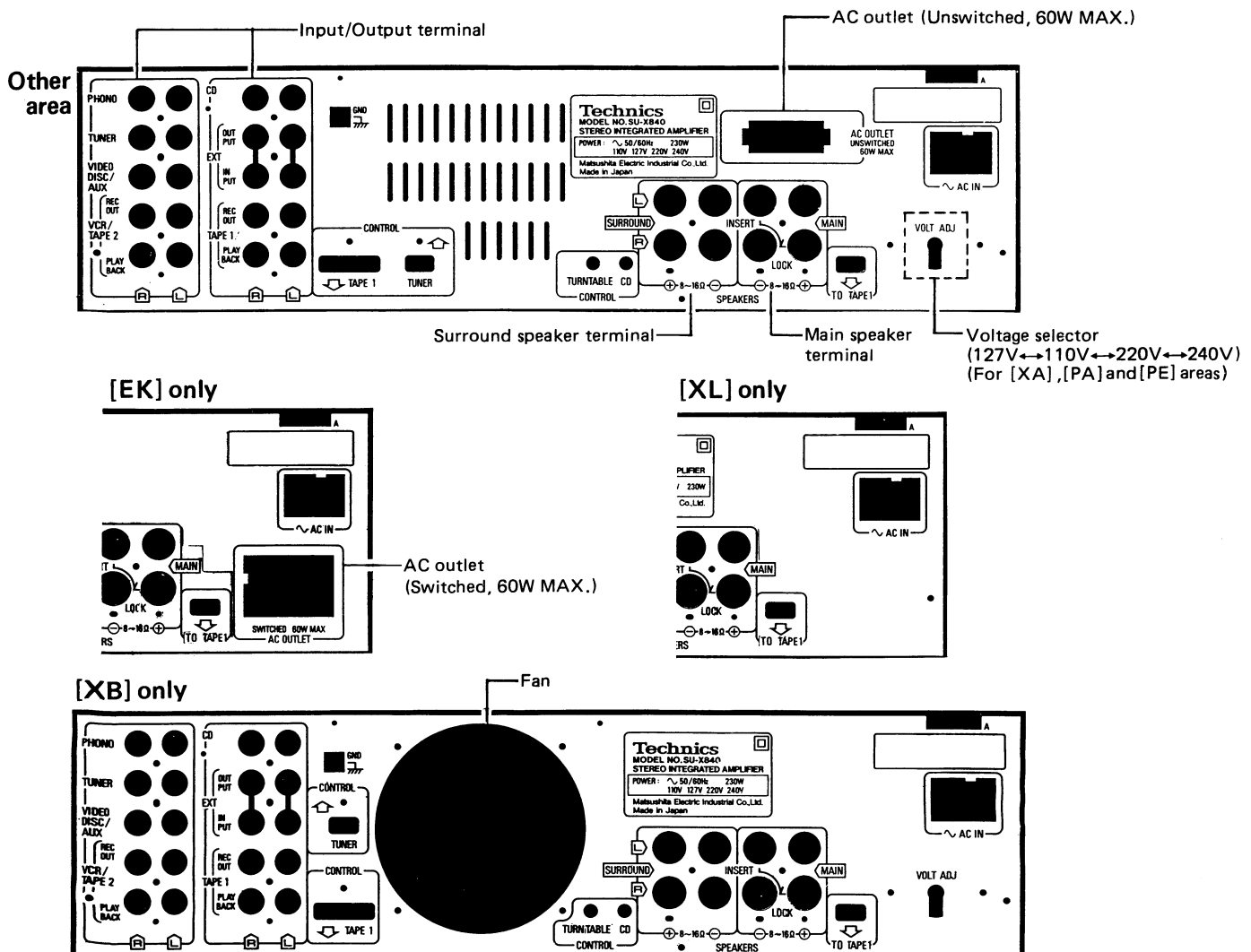
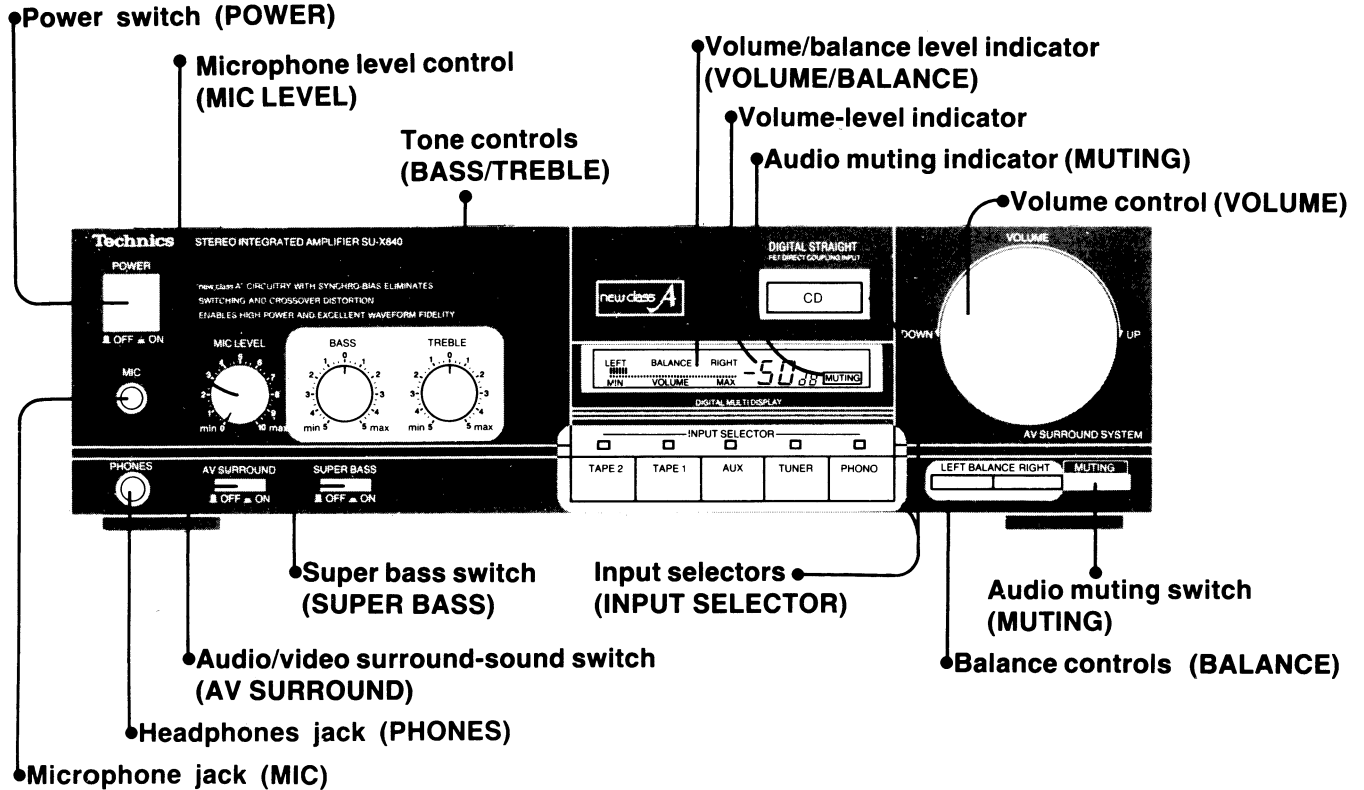
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Technics

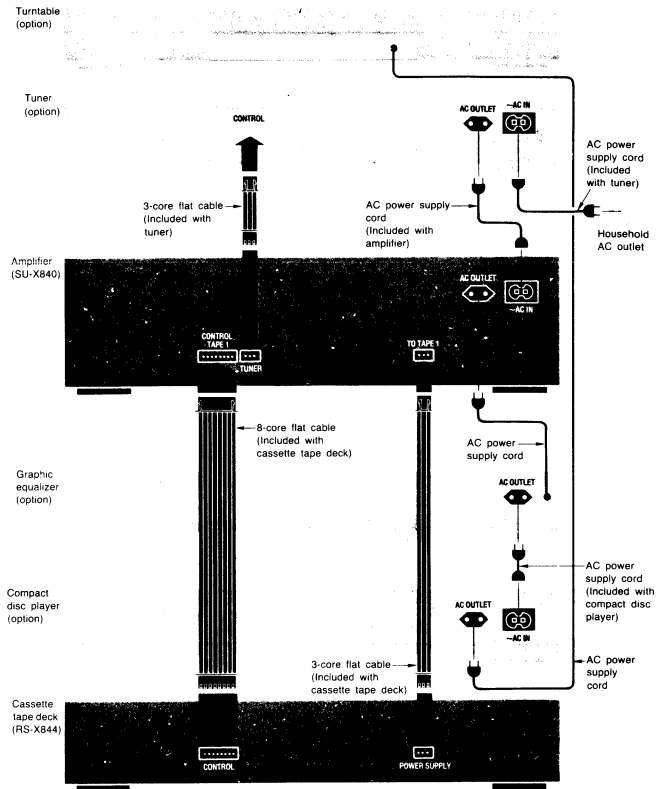
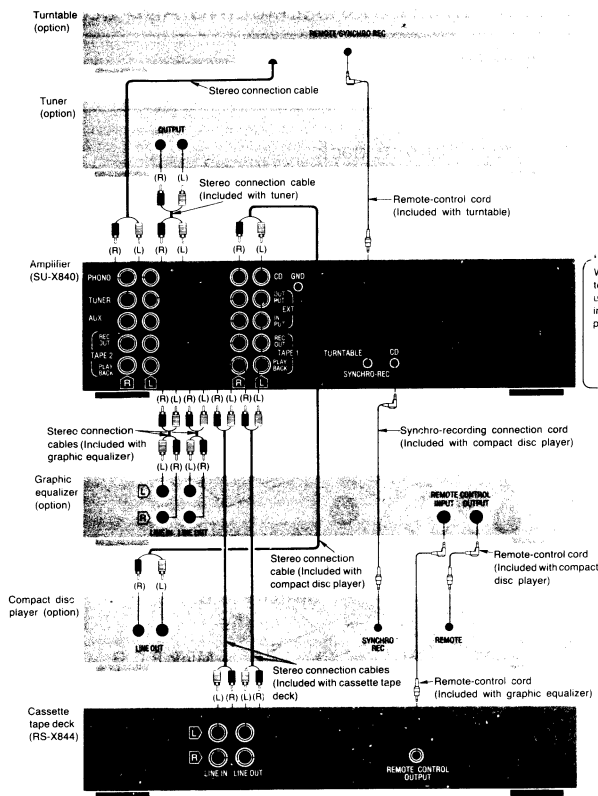
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LOCATION OF CONTROLS

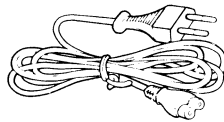


CONNECTION



ACCESSORY

- AC power supply cord ... 1



PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

BEFORE REPAIR AND ADJUSTMENT

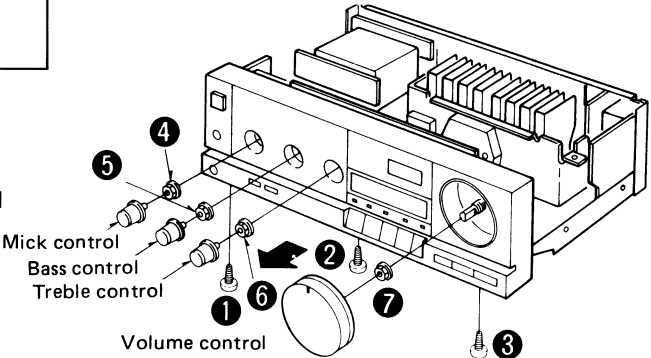
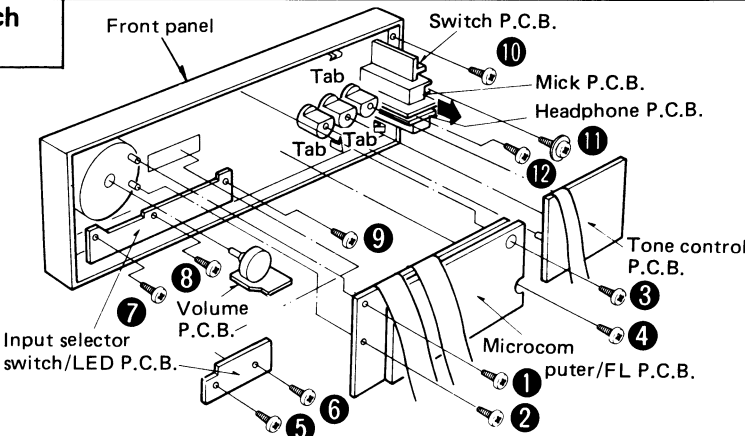
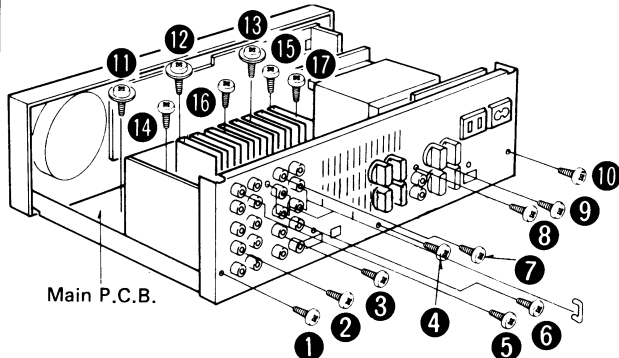
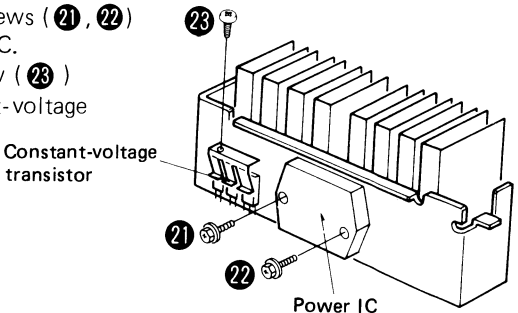
1. Turn off the power, Discharge both power supply capacitors (C701, C702, 3300 μ F) through a 10 Ω , 5W resistor to ground. Do not short between C701 and C702. It may damage the capacitors.
2. After completion of repair, slowly apply the primary voltage by using a variac to avoid over current. Current consumption at 60Hz/50Hz in no signal mode should be shown below with respect to supply voltage 110/127V /220V/240V.

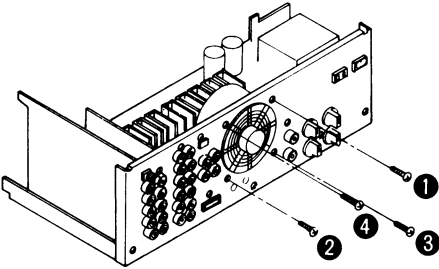
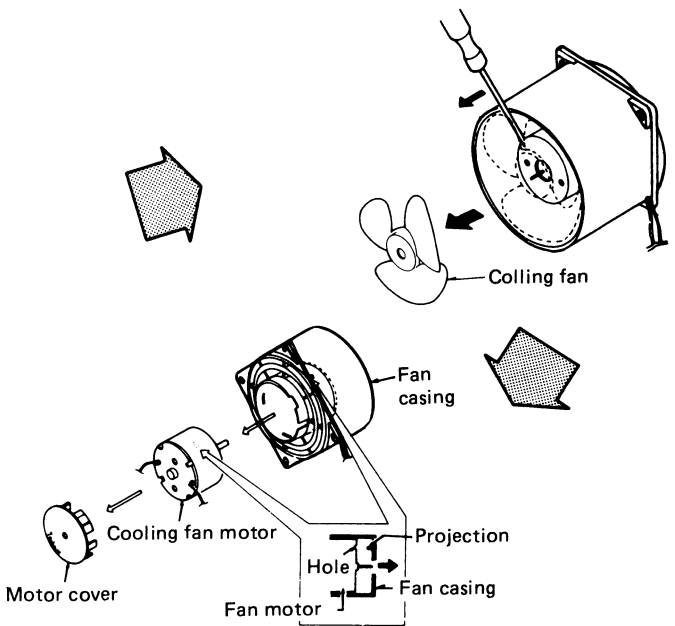
Power supply voltage		AC110V	AC127V	AC220V	AC240V
Consumed current	50Hz	190 ~ 300mA	185 ~ 290mA	90 ~ 150mA	85 ~ 140mA
	60Hz	180 ~ 285mA	170 ~ 260mA	85 ~ 140mA	80 ~ 130mA

DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"

SOME CHASSIS COMPONENTS MAY HAVE SHARP EDGES. BE CAREFUL WHEN DISASSEMBLING AND SERVICING.

Ref. No. 1	How to remove the cabinet	
Procedure 1	1. Remove the 4 screws from both sides of the cabinet and the 2 screws from its back.	
Ref. No. 2	How to remove the front panel	
Procedure 1 → 2	1. Remove the 3 screws (❶ ~ ❸) from the front panel. 2. Remove the 4 controls-volume, mike, treble and bass-and their respective nuts (❹ ~ ❷).	
		
Ref. No. 3	How to remove the input selector switch and microcomputer FL P.C.B.	
Procedure 1 → 2 → 3	1. Remove the 4 screws (❶ ~ ❹) from the microcomputer/FL P.C.B. 2. Remove the 5 screws (❺ ~ ❾) from the input selector switch/LED P.C.B. 3. Undo the tabs off the tone control P.C.B. 4. Remove the screw (❿) from the switch P.C.B. 5. Remove the screw (⓫) from the mike P.C.B. 6. Remove the screw (⓬) from the headphone P.C.B.	
		
Ref. No. 4	How to remove the power IC and constant-voltage transistor	
Procedure 1 → 4	1. Remove the 10 screws (❶ ~ ❿) from the rear panel. 2. Remove the 5 screws (⓫ ~ ⓮) from the main P.C.B. 3. Remove the 2 screws (⓯ , ⓰) from the heat sink.	
		
	4. Remove the 3 screws (⓱ ~ ⓲) from the front panel. 5. Unsolder the power IC and the constant-voltage transistor. 6. Remove the 2 screws (⓴ , ⓵) from the power IC. 7. Remove the screw (⓶) from the constant-voltage transistor.	
		
	8. When mounting the power IC and the constant-voltage transistor, apply silicone grease (SZ0GYG6260) over their contact areas.	

Ref. No. 5	How to remove the cooling fan motor	2. Insert a screwdriver at the root of the cooling fan it out of the motor shaft.
Procedure 1 → 5	[XB] only	
1. Remove the 4 screws (❶ ~ ❹) and the connector.		
		
3. Remove the motor cover. 4. Remove the motor from the fan casing.		
5. When mounting the fan motor, align the fan casing's projection with the hole of the fan motor.		
		

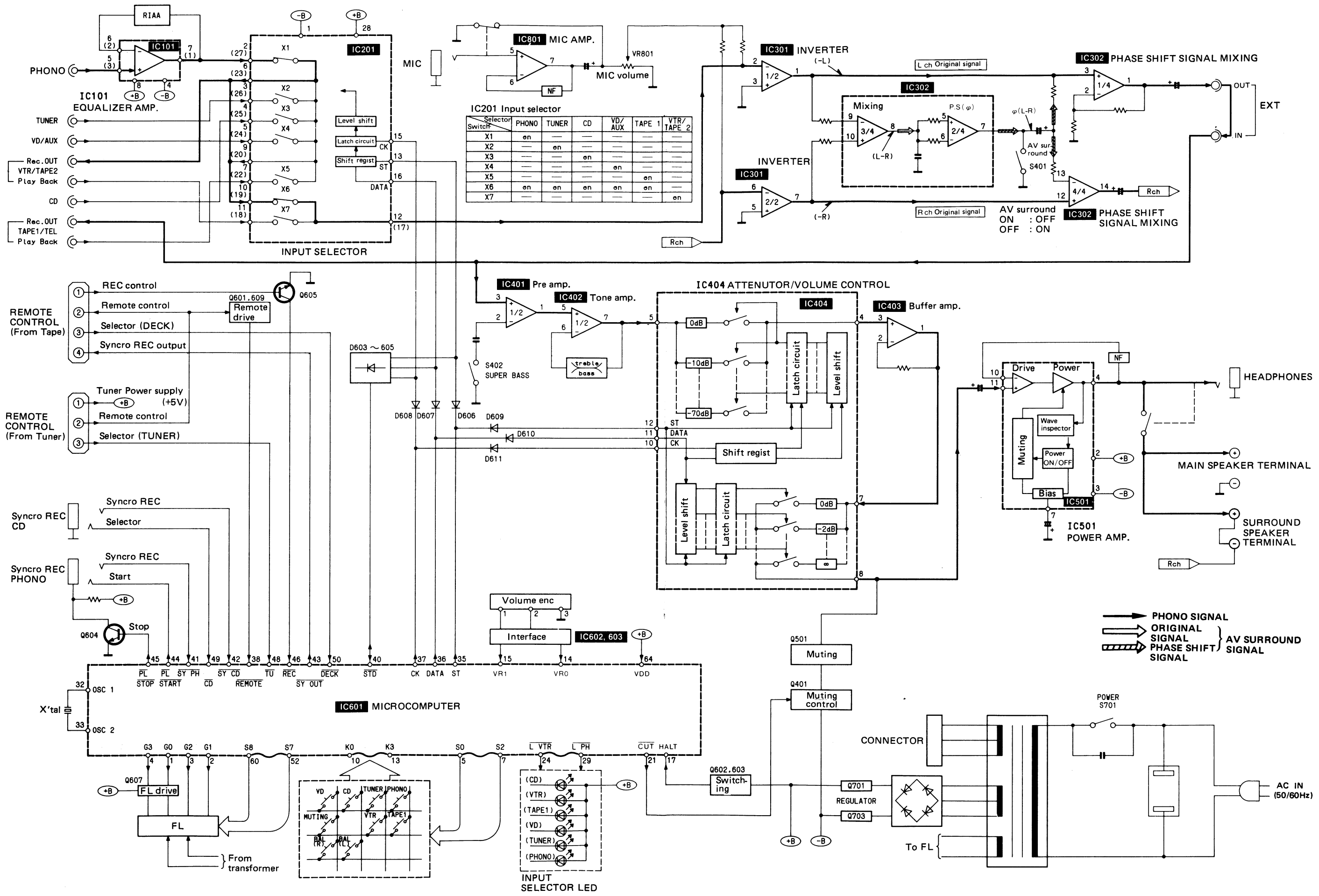
■ FUNCTION OF TERMINAL

● IC601 (LC6554D-3230)

Pin No.	Symbol	Function Description																							
1 3 4	G0 } G3	Grid drive output for digital multi-display (FL).																							
5 6 7	S0 } S2	Key matrix output.	<table><tr><th>Output Input</th><th>5</th><th>6</th><th>7</th></tr><tr><td>10</td><td>S603 VIDEO DISC/AUX</td><td>S612 MUTE</td><td>S608 BALANCE(R)</td></tr><tr><td>11</td><td>—</td><td>—</td><td>S607 BALANCE(L)</td></tr><tr><td>12</td><td>S602 TUNER</td><td>S605 VTR/TAPE 2</td><td>—</td></tr><tr><td>13</td><td>S601 PHONO</td><td>S604 TAPE 1</td><td>—</td></tr></table>			Output Input	5	6	7	10	S603 VIDEO DISC/AUX	S612 MUTE	S608 BALANCE(R)	11	—	—	S607 BALANCE(L)	12	S602 TUNER	S605 VTR/TAPE 2	—	13	S601 PHONO	S604 TAPE 1	—
Output Input	5		6	7																					
10	S603 VIDEO DISC/AUX	S612 MUTE	S608 BALANCE(R)																						
11	—	—	S607 BALANCE(L)																						
12	S602 TUNER	S605 VTR/TAPE 2	—																						
13	S601 PHONO	S604 TAPE 1	—																						
10 13	K0 } K3	Key matrix input.																							
8	S3	Not used.																							
9	POWER ON	Not used.																							
14 15	VR0 VR1	Rotary encoder input of volume control (VR601).																							
16	CS0	Not used.																							
17	HALT	Input for power detection.																							
18	CS1	Not used.																							
19	AMP	Input for power detection.																							
20	AMP POWER	Not used.																							

Pin. No.	Symbol	Function Description	
21	$\overline{\text{CUT}}$	Input selector noise cut muting output.	
22	$\overline{\text{S. ON}}$	Not used.	
23	$\overline{\text{DTS}}$	Not used.	
24	$\overline{\text{LVTR}}$	LED selector display (VTR) output.	
25	$\overline{\text{LTA}}$	LED selector display (TAPE) output.	
26	$\overline{\text{LVD}}$	LED selector display (VIDEO DISC/AUX) output.	
27	$\overline{\text{LCD}}$	LED selector display (CD) output.	
28	$\overline{\text{LTU}}$	LED selector display (TUNER) output.	
29	$\overline{\text{LPH}}$	LED selector display (PHONO) output.	
30	TEST	Not used.	
31	V _{SS}	Grounding.	
32	OSC1	Clock oscillation input/output.	
33	OSC2		
34	$\overline{\text{RES}}$	Reset signal input.	
35	ST	ST signal control output	
36	DATA	DATA signal control output.	
37	CK	CK signal control output.	
38	$\overline{\text{REM}}$	Remote control data input.	
39	$\overline{\text{DCD}}$	Deck control output.	
40	$\overline{\text{SID}}$	ST, CK and DATA signal control.	
41	$\overline{\text{SYPH}}$	Player synchronized recording input.	
42	$\overline{\text{SYCD}}$	CD synchronized recording input.	
43	SY OUT	Deck synchronized recording output.	
44	$\overline{\text{START}}$	Player STOP/START signal output.	
45	$\overline{\text{STOP}}$		
46	$\overline{\text{REC}}$	Deck on-recording signal input.	
47	$\overline{\text{PH}}$	Input selection by phono unit signal.	Direct operation input.
48	$\overline{\text{TU}}$	Input selection by tuner unit signal.	
49	$\overline{\text{CD}}$	Input selection by CD unit signal.	
50	$\overline{\text{DECK}}$	Input selection by tape unit signal.	
51	V _P	Power supply.	
52 , 60	S0 S8	Digital multi-display (FL) output.	
61	S music	Not used.	
62	S movie		
63	S mono		
64	V _{DD}	Power supply.	

BLOCK DIAGRAM



RESIS

Notes: * Important
Compon
teristics
these co
parts.
* Brackete
area.
Parts wit

Numbering System

Example

ERD	25
Type	Wattage

ERX	2
Type	Wattage

Numbering System

Example

ECKD	1H
Type	Voltage

ECEA	50
Type	Voltage

Ref. No.	
RESISTORS	
C513	E
R101, R102	E
R103, R104	E
R105, R106	E
R107, R108	E
R109, R110	E
R111, R112	E
R113, R114	E
R115, R116	E
R117, R118	E
R119, R120(EG)	E
R201, R202	E
R203	E
R204, R205	E
R206	E
R207, R208	E
(EG)	E
R209, R210	E
(EG)	E
R211, R212	E
(EG)	E
R213, R214	E
(EG)	E
R215, R216	E
(EG)	E
R217, R218	E
(EG)	E
R219, R220	E
(EG)	E
R221, R222	E
(EG)	E
R223, R224	E
(EG)	E
R301, R302	E
R303, R304	E
R305, R306	E
R307, R308	E
R309, R310	E
R311, R312	E
R313, R314	E
R315, R316	E

RESISTORS & CAPACITORS

Notes: * Important safety notice:

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

* Bracketed indications in Ref. No. columns specify the area.

Parts without these indications can be used for all areas.

Numbering System of Resistor

Example

ERD	25	F	J	102
Type	Wattage	Shape	Tolerance	Value (10) $\times 10^2$ ohms

ERX	2	AN	J	471
Type	Wattage	Shape	Tolerance	Value (47) $\times 10^1$ ohms

Numbering System of Capacitor

Example

ECKD	1H	102	Z	F
Type	Voltage	Value (10 $\times 10^2$) $\times 10^{-6}$ microfarad	Tolerance	Peculiarity

ECEA	50	M	331
Type	Voltage	Peculiarity	Value (33) $\times 10^1$ microfarad

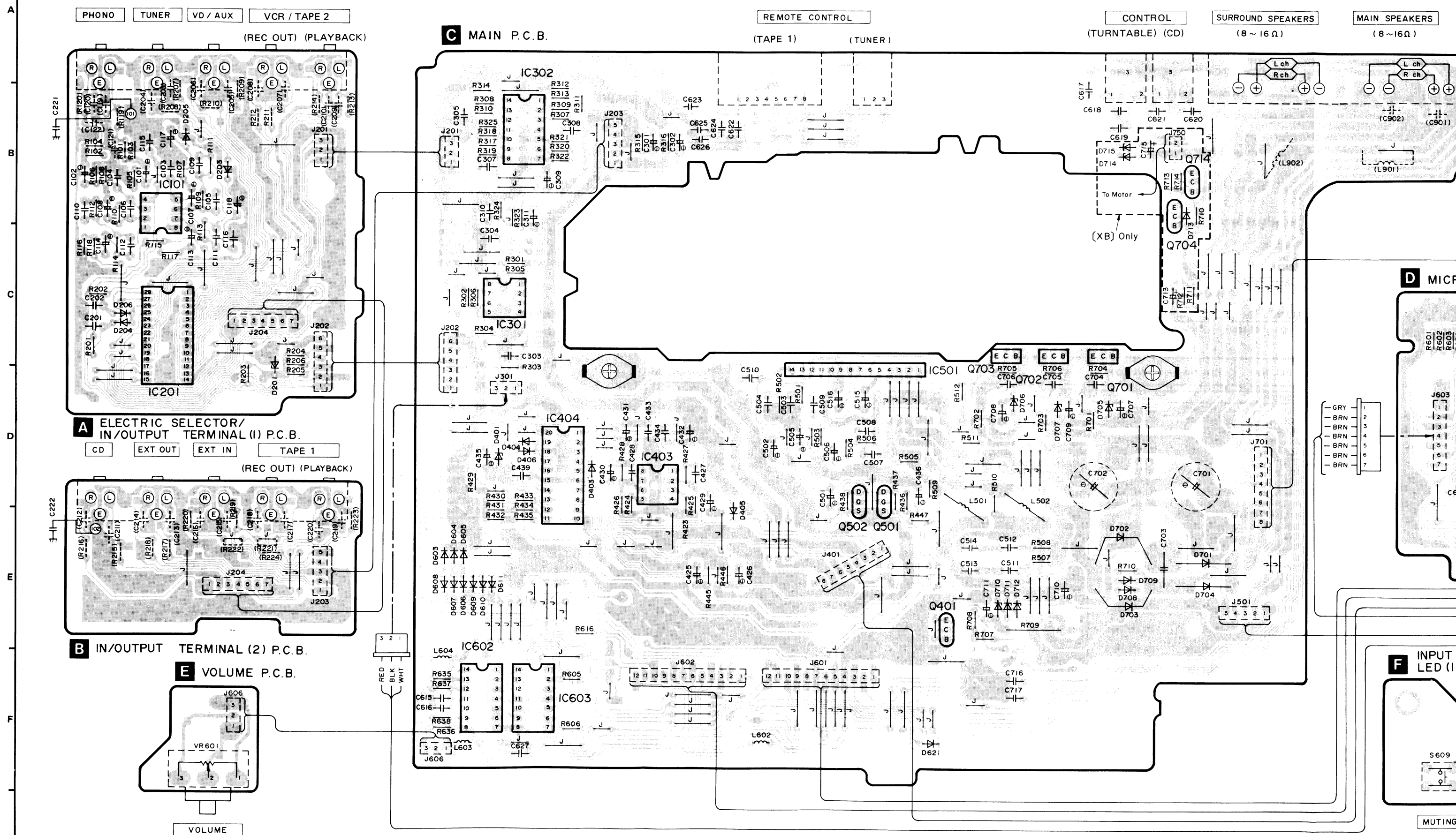
Resistor Type	Wattage	Tolerance
ERD : Carbon	10 : 1/8W	F : $\pm 1\%$
ERG : Metal Oxide	18 : 1/8W	G : $\pm 2\%$
ERX : Metal Film	S2 : 1/4W	J : $\pm 5\%$
ERQ : Fuse Type Metal	2F : 1/4W	K : $\pm 10\%$
ERD L : Carbon (chip)	50 : 1/2W	
ERO K : Metal Film (chip)	S1 : 1/2W	
ERC : Solid	12 : 1/2W	
	25 : 1/4W	
	1A : 1W	
	2A : 2W	

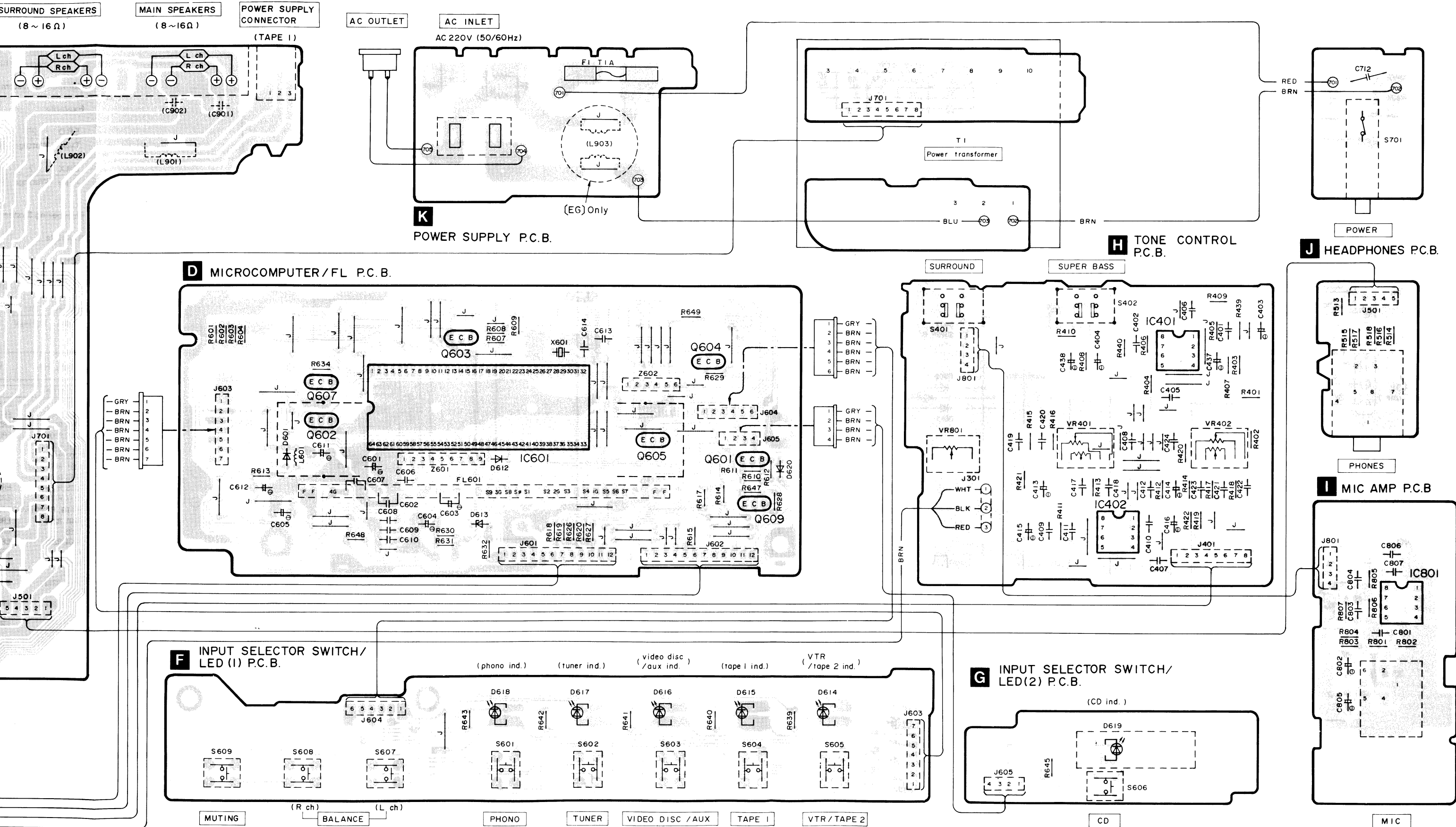
Capacitor Type	Voltage	Tolerance
ECE : Electrolytic	0J : 6.3V	C : $\pm 0.25\text{pF}$
ECCD : Ceramic	1A : 10V	D : $\pm 0.5\text{pF}$
ECKD : Ceramic	1C : 16V	G : $\pm 2\%$
ECQM : Polyester	1E : 25V	J : $\pm 5\%$
	1V : 35V	K : $\pm 10\%$
ECQP : Polypropylene	1H : 50V	M : $\pm 20\%$
	1J : 63V	Z : $\pm 80\%$
ECG : Ceramic	50 : 50V	-20%
ECEADDDN : Non Polar Electrolytic	05 : 50V	P : $\pm 100\%$
QCU : Ceramic (Chip Type)	2A : 100V	-0%
ECUX : Ceramic (Chip Type)	1 : 100V	
ECF : Semiconductor	2H : 500V	
	KC : 400V AC	
	KC : 125V AC (UL)	
EECW : Liquid electrolyte double layer capacitor		

Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code
RESISTORS								
C513	ECFTD473KXL	001 108 0361 3	R317, R318	ERDS2TJ223	001 152 2432 7	R503, R504	ERDS2TJ472	001 152 2362 4
R101, R102	ERDS2TJ391	001 152 2360 6	R319	ERDS2TJ393	001 152 2440 7	R505, R506	ERDS2TJ473	001 152 2363 3
R103, R104	ERDS2TJ224	001 152 2433 6	R320, R321	ERDS2TJ223	001 152 2432 7	R507, R508	ERDS1FJ477	001 152 2631 2
R105, R106	ERDS2TJ563	001 152 2446 1	R322	ERDS2TJ223	001 152 2432 7	R509, R510	ERDS2TJ100	001 152 2420 1
R107, R108	ERDS2TJ221	001 152 2431 8	R323	ERDS2TJ821	001 152 2454 1	R511	ERDS2TJ154	001 152 2427 4
R109, R110	ERDS2TJ680	001 152 2448 9	R324	ERDS2TJ151	001 152 2426 5	R512	ERD2FCG220	001 152 0190 4
R111, R112	ERDS2TJ184	001 152 2588 8	R325	ERDS2TJ393	001 152 2440 7	(E)		
R113, R114	ERDS2TJ123	001 152 2424 7	R401	ERDS2TJ183	001 152 2429 2	(EX, EH, EI)		
R115, R116	ERDS2TJ563	001 152 2446 1	(E)			(EB, EF, EW)		
R117, R118	ERDS2TJ102	001 152 2346 4	R402	ERDS2TJ183	001 152 2429 2	(XL, XA, XB)		
R119, R120 (E)	ERDS2TJ470		(E)			(PA, PE, EG)		
R201, R202	ERDS2TJ152	001 152 2350 8	R403	ERDS2TJ562	001 152 2445 2	R513, R514	ERDS2TJ121	001 152 2349 1
R203	ERDS2TJ182	001 152 2352 6	R403	ERDS2TJ102	001 152 2346 4	R515, R516	ERDS2TJ121	001 152 2349 1
R204, R205	ERDS2TJ562	001 152 2445 2	R403	ERDS2TJ272	001 152 2354 4	R517, R518	ERDS2TJ101	001 152 2421 0
R206	ERDS2TJ562	001 152 2445 2	(E)			R601, R602	ERDS2TJ562	001 152 2445 2
R207, R208	ERDS2TJ222	001 152 2353 5	R404	ERDS2TJ102	001 152 2346 4	R603, R604	ERDS2TJ562	001 152 2445 2
(E)			R404	ERDS2TJ272	001 152 2354 4	R605, R606	ERDS2TJ103	001 152 2347 3
R209, R210	ERDS2TJ222	001 152 2353 5	(E)			R607	ERDS2TJ224	001 152 2433 6
(E)			R405, R406	ERDS2TJ473	001 152 2363 3	R608	ERDS2TJ223	001 152 2432 7
R211, R212	ERDS2TJ222	001 152 2353 5	R407, R408	ERDS2TJ562	001 152 2445 2	R609	ERDS2TJ822	001 152 2455 0
(E)			R409, R410	ERDS2TJ224	001 152 2433 6	R610	ERDS2TJ562	001 152 2445 2
R213, R214	ERDS2TJ222	001 152 2353 5	R411, R412	ERDS2TJ474	001 152 2443 4	R611, R612	ERDS2TJ103	001 152 2347 3
(E)			R413, R414	ERDS2TJ223	001 152 2432 7	R613	ERDS2TJ224	001 152 2433 6
R215, R216	ERDS2TJ222	001 152 2353 5	R415, R416	ERDS2TJ392	001 152 2439 0	R614, R615	ERDS2TJ470	001 152 2442 5
(E)			R417, R418	ERDS2TJ182	001 152 2352 6	R616, R617	ERDS2TJ470	001 152 2442 5
R217, R218	ERDS2TJ222	001 152 2353 5	R419, R420	ERDS2TJ821	001 152 2454 1	R618, R619	ERDS2TJ470	001 152 2442 5
(E)			R421, R422	ERDS2TJ563	001 152 2446 1	R620	ERDS2TJ470	001 152 2442 5
R219, R220	ERDS2TJ222	001 152 2353 5	R423, R424	ERDS2TJ224	001 152 2433 6	R626, R627	ERDS2TJ223	001 152 2432 7
(E)			R425, R426	ERDS2TJ392	001 152 2357 1	R628	ERDS2TJ562	001 152 2445 2
R221, R222	ERDS2TJ222	001 152 2353 5	R427, R428	ERDS2TJ273	001 152 2436 3	R629	ERDS2TJ822	001 152 2455 0
(E)			R429	ERDS2TJ122	001 152 2423 8	R630, R631	ERDS2TJ101	001 152 2421 0
R223, R224	ERDS2TJ222	001 152 2353 5	R430, R431	ERDS2TJ562	001 152 2445 2	R632	ERDS2TJ390	001 152 2355 3
(E)			R432	ERDS2TJ562	001 152 2445 2	R634	ERDS2TJ104	001 152 2348 2
R301, R302	ERDS2TJ223	001 152 2432 7	R433, R434	ERDS2TJ103	001 152 2347 3	R635, R636	ERDS2TJ153	001 152 2351 7
R303, R304	ERDS2TJ223	001 152 2432 7	R435	ERDS2TJ103	001 152 2347 3	R637, R638	ERDS2TJ473	001 152 2363 3
R305, R306	ERDS2TJ223	001 152 2432 7	R436	ERDS2TJ154	001 152 2427 4	R639, R640	ERDS2TJ221	001 152 2431 8
R307, R308	ERDS2TJ273	001 152 2436 3	R437, R438	ERDS2TJ392	001 152 2439 0	R641, R642	ERDS2TJ221	001 152 2431 8
R309, R310	ERDS2TJ103	001 152 2347 3	R439, R440	ERDS2TJ182	001 152 2352 6	R643, R645	ERDS2TJ221	001 152 2431 8
R311, R312	ERDS2TJ103	001 152 2347 3	R445, R446	ERDS2TJ224	001 152 2433 6	R647	ERDS2TJ223	001 152 2432 7
R313, R314	ERDS2TJ273	001 152 2436 3	R447, R501	ERDS2TJ473	001 152 2363 3	R648	ERDS2TJ104	001 152 2348 2
R315, R316	ERDS2TJ104	001 152 2348 2	R502	ERDS2TJ473	001 152 2363 3	R649	ERDS2TJ101	001 152 2421 0

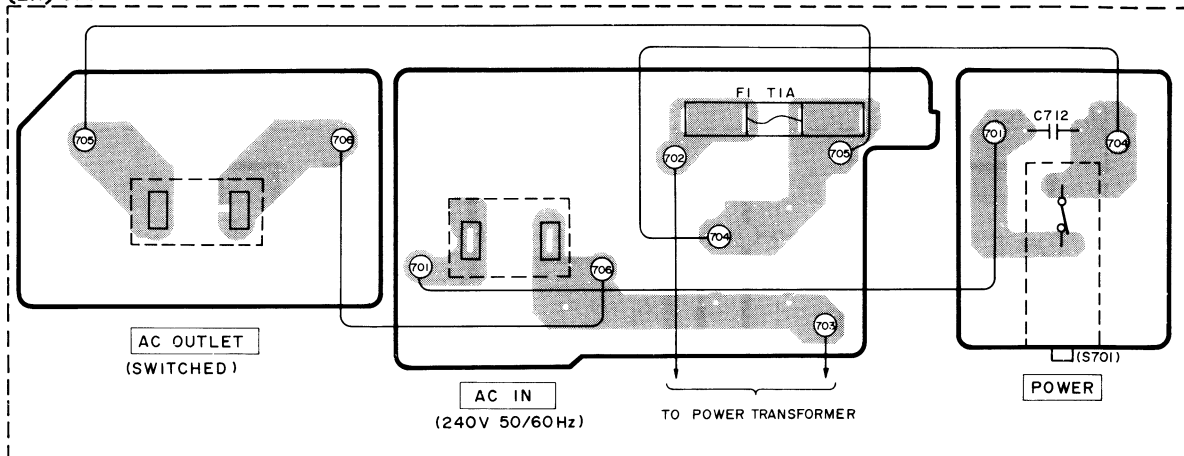
Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code
R701 (EK)	ERD2FCG220	001 152 0190 4	C105, C106	ECKD1H102KB	001 103 1414 8	C425, C426	ECEA1HPS010	001 120 6063 4
R701 (EX, EH, E1) (EB, EF, EW) (XL, XA, XB) (PA, PE, EG)	ERD25FJ470	001 152 0309 7	C107, C108 C109, C110 C111, C112 C113, C114 C115, C116 C117, C118	ECEA1CPS220 ECFTD223KXL ECFTD682KXL ECEA1HPS3R3 ECKD1H103PF ECEA1CKS100	001 120 6060 7 001 108 0342 6 001 108 0363 1 001 120 6064 3 001 103 1449 7 001 120 2600 7	C427, C428 C429, C430 C431, C432 C433, C434 C435 C436	RCBS1H820KBY ECEA1HPS3R3 ECEA1CKS100 ECKD1H103PF ECEA1CKS100 ECEA1HK0R1	001 103 5646 8 001 120 6064 3 001 120 2600 7 001 103 1449 7 001 120 2600 7 001 120 0340 6
R702 (EK)	ERD2FCG220	001 152 0190 4	C119 (EG)	RCBS1H180KBY		C437, C438 C439	ECEA1HK010 ECKD1H103PF	001 120 0341 5 001 103 1449 7
R702 (EX, EH, E1) (EB, EF, EW) (XL, XA, XB) (PA, PE)	ERD25FJ470	001 152 0309 7	C120 (EG) C121 (EG) C122 (EG)	RCBS1H180KBY RCBS1H151KBY RCBS1H151KBY		C501, C502 C503, C504 C505, C506 C507, C508 C509, C510 C511, C512	ECEA1HPS3R3 ECCD1H121K ECEA1CPS100 ECCD1H150KC ECKD1H102KB ECFTD473KXL	001 120 6064 3 001 103 0390 3 001 120 6036 7 001 103 0410 6 001 103 1414 8 001 108 0361 3
R703 (EK)	ERD2FCG220	001 152 0190 4	C201, C202 C203, C204 (EG) C205, C206 (EG) C207, C208 (EG)	ECKD1H103PF RCBS1H101KBY RCBS1H101KBY RCBS1H101KBY RCBS1H101KBY	001 103 1449 7 001 103 5569 4 001 103 5569 4 001 103 5569 4	C514 C515 C516 C601 C602 C603 C604, C605 C606, C607 C608, C609 C610 C611, C612 C613, C614 C615, C616 C617, C618 C619, C620 C621, C622 C623 C624 C625, C626 C627 C701, C702 C703 C704, C705 C706 C707, C708 C709 C710 C711 C712 C713 (XB)	ECFTD473KXL ECEA1HU100 ECEA0JK330 ECEA0JS102 ECKD1H223PF ECEA0JKS470 ECEA1VU330 RCBS1H331KBY RCBS1H331KBY RCBS1H331KBY ECEA1HK2R2B RCBS1H330JLY RCBS1H221KBY ECKD1H103PF ECKD1H103PF ECKD1H103PF ECBT1E103ZF5 ECKD1H103PF ECBT1E103ZF5 ECKD1H103PF ECES1HU332G ECQE1104KN ECKD1H103PF ECKD1H103PF ECEA1CU470 ECEA1CU470 ECEA1HK470 ECEA1VU330 ECKDKC103PF2 ECEA1CKS100	001 108 0361 3 001 120 3251 4 001 120 0141 1 001 120 0152 8 001 103 1510 9 001 120 2531 3 001 120 3273 8 001 103 5619 1 001 103 5619 1 001 103 5619 1 001 120 0346 0 001 103 5617 3 001 103 5603 9 001 103 1449 7 001 103 1449 7 001 103 8080 2 001 103 1449 7 001 103 8080 2 001 106 2264 5 001 103 1449 7 001 103 1449 7 001 120 2835 0 001 120 2835 0 001 120 2640 9 001 120 3273 8 001 103 3734 7 001 120 2600 7
R703 (EX, EH, E1) (EB, EF, EW) (XL, XA, XB) (PA, PE, EG)	ERD25FJ100 ERD25FJ470	001 152 0213 4 001 152 0309 7	C209, C210 (EG) C211, C212 (EG) C213, C214 (EG) C215, C216 (EG) C217, C218 (EG) C219, C220 (EG) C221, C222 C301, C302 C303, C304 C305 C307 C308 C309 C310 C311 C401, C402 C403, C404 C405, C406 C407, C408 C409, C410 C411, C412 C413, C414 C415, C416 C417, C418 C419, C420 C421, C422 C423, C424	ECKD1H101KBY RCBS1H101KBY RCBS1H101KBY RCBS1H101KBY RCBS1H101KBY RCBS1H101KBY RCBS1H101KBY RCBS1H101KBY RCBS1H101KBY RCBS1H101KBY ECCD1H223PF ECEA1HPS3R3 ECKD1H103PF ECKD1H103PF ECCD1H180KC ECFTD823KXL ECEA1CPS100 ECFTD472KXL ECEA1CPU101B ECFTD473KXL ECEA1HK010 ECKD1H103PF ECKD1H103PF ECKD1H821KB ECCD1H560K ECEA1EK3R3B ECEA1EK3R3B ECFTD123KXL ECFTD683KXL ECFTD472KXL ECFTD223KXL	001 103 5569 4 001 103 5569 4 001 103 5569 4 001 103 5569 4 001 103 5569 4 001 103 5569 4 001 103 5569 4 001 103 5569 4 001 103 5569 4 001 103 5569 4 001 103 1510 9 001 120 6064 3 001 103 1449 7 001 103 1449 7 001 103 0448 2 001 108 0364 0 001 120 6036 7 001 108 0746 0 001 120 6272 7 001 108 0361 3 001 120 0341 5 001 103 1449 7 001 103 1449 7 001 103 1596 7 001 103 0660 0 001 120 0292 7 001 120 0292 7 001 108 0745 1 001 108 0346 2 001 108 0746 0 001 108 0342 6	RCBS1H331KBY RCBS1H331KBY RCBS1H331KBY RCBS1H331KBY RCBS1H330JLY RCBS1H221KBY ECKD1H103PF ECKD1H103PF ECKD1H103PF ECBT1E103ZF5 ECKD1H103PF ECBT1E103ZF5 ECKD1H103PF ECES1HU332G ECQE1104KN ECKD1H103PF ECKD1H103PF ECEA1CU470 ECEA1CU470 ECEA1HK470 ECEA1VU330 ECKDKC103PF2 ECEA1CKS100	001 103 5619 1 001 103 5619 1 001 103 5619 1 001 120 0346 0 001 103 5617 3 001 103 5603 9 001 103 1449 7 001 103 1449 7 001 103 8080 2 001 103 1449 7 001 103 8080 2 001 103 1449 7 001 120 5399 7 001 106 2264 5 001 103 1449 7 001 103 1449 7 001 120 2835 0 001 120 2835 0 001 120 2640 9 001 120 3273 8 001 103 3734 7 001 120 2600 7	
R704, R705 R706 R707 R708 R709 (EX, EH, E1) (EB, EF, EW) (XL, XA, XB) (PA, PE, EG)	ERDS2TJ682 ERDS2TJ103 ERDS2TJ562 ERDS2TJ472 ERG1ANJ681	001 152 2365 1 001 152 2347 3 001 152 2445 2 001 152 2362 4 001 151 0086 8						
R709 (EK)	ERG2ANJ681	001 151 0178 5						
R710 R710 (XB)	ERDS2TJ222 ERDS2TJ392	001 152 2353 5 001 152 2439 0						
R711 (XB)	ERDS2TJ223	001 152 2432 7						
R712 (EB)	ERDS2TJ223	001 152 2432 7						
R713 (XB)	ERDS2TJ103	001 152 2347 3						
R714 (XB)	ERDS2TJ153	001 152 2351 7						
R801 R802 R803 R804 R805 R806 R807	ERDS2TJ101 ERDS2TJ473 ERDS2TJ102 ERDS2TJ123 ERDS2TJ154 ERDS2TJ821 ERDS2TJ681	001 152 2421 0 001 152 2363 3 001 152 2346 4 001 152 2424 7 001 152 2427 4 001 152 2454 1 001 152 2449 8						
CAPACITORS								
C101, C102 C103, C104	ECEA1HPS010 ECCD1H101K	001 120 6063 4 001 103 0341 2						
					</			

■ CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM

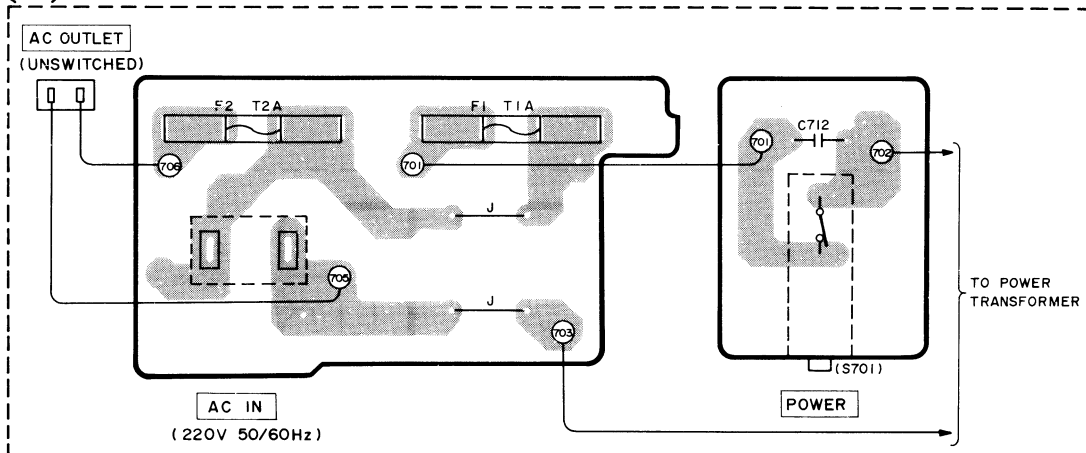




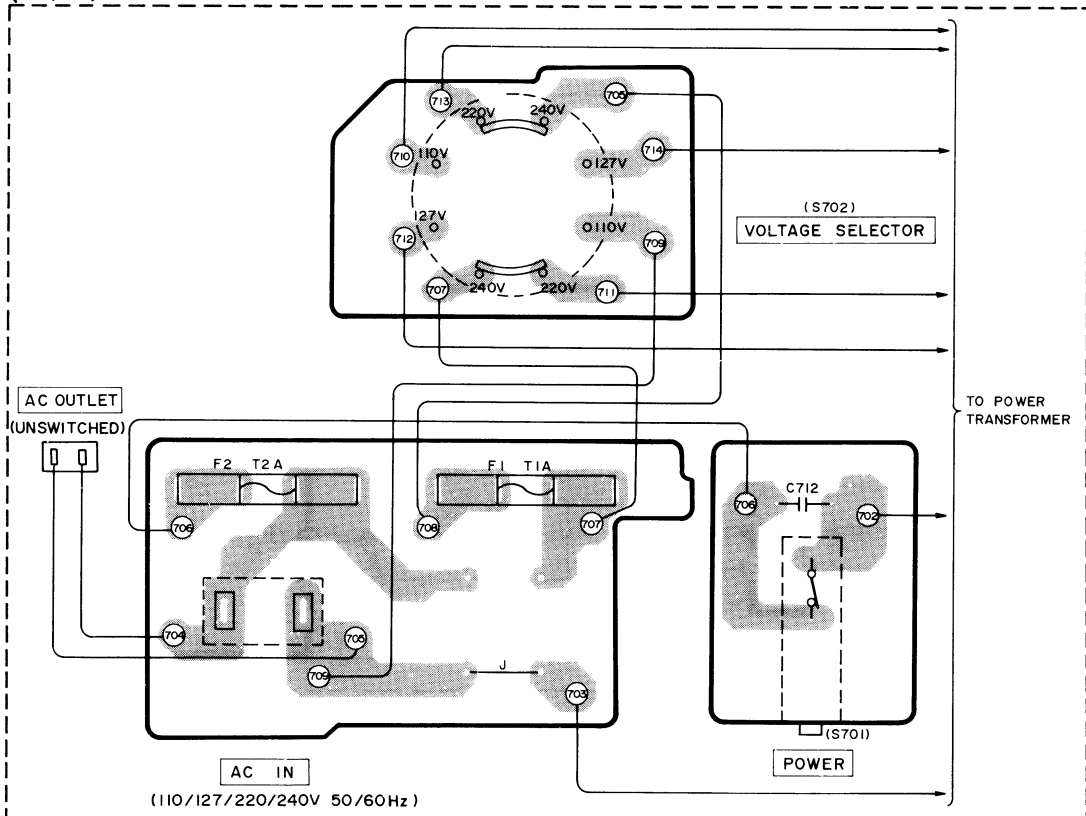
(EK) ONLY



(EW) ONLY



(XA, XB) ONLY



(EK) ONLY

J701

1 2 3 4 5 6 7 8

702 703

704 705 706

701

AC IN (240V 50/60Hz)

AC OUTLET (SWITCHED)

T1

F1 T1A

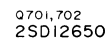
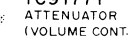
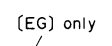
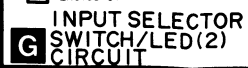
C712 0.01

S701 (POWER)

(XA, XB) ONLY

The diagram illustrates the power supply circuit for models (XA, XB). Key components include:

- Transformer (J701):** Features primary taps 1 through 8 and secondary taps 702 through 703.
- Voltage Selector (S702):** A rotary switch with positions for 240V, 220V, 110V, and 127V. It is labeled "(VOLTAGE SELECTOR)".
- Power Switch (S701):** A switch labeled "(POWER)" controlled by a thermal fuse (C712 0.01).
- Fuses:** Fuses F1 (T1A) and F2 (T2A) are located in the output lines.
- AC Outlet:** An "AC OUTLET (UNSWITCHED)" is provided for external power connection.
- AC Input:** The "AC IN" is specified as 110/127/220/240V, 50/60Hz.



SCHEMATIC DIAGRAM

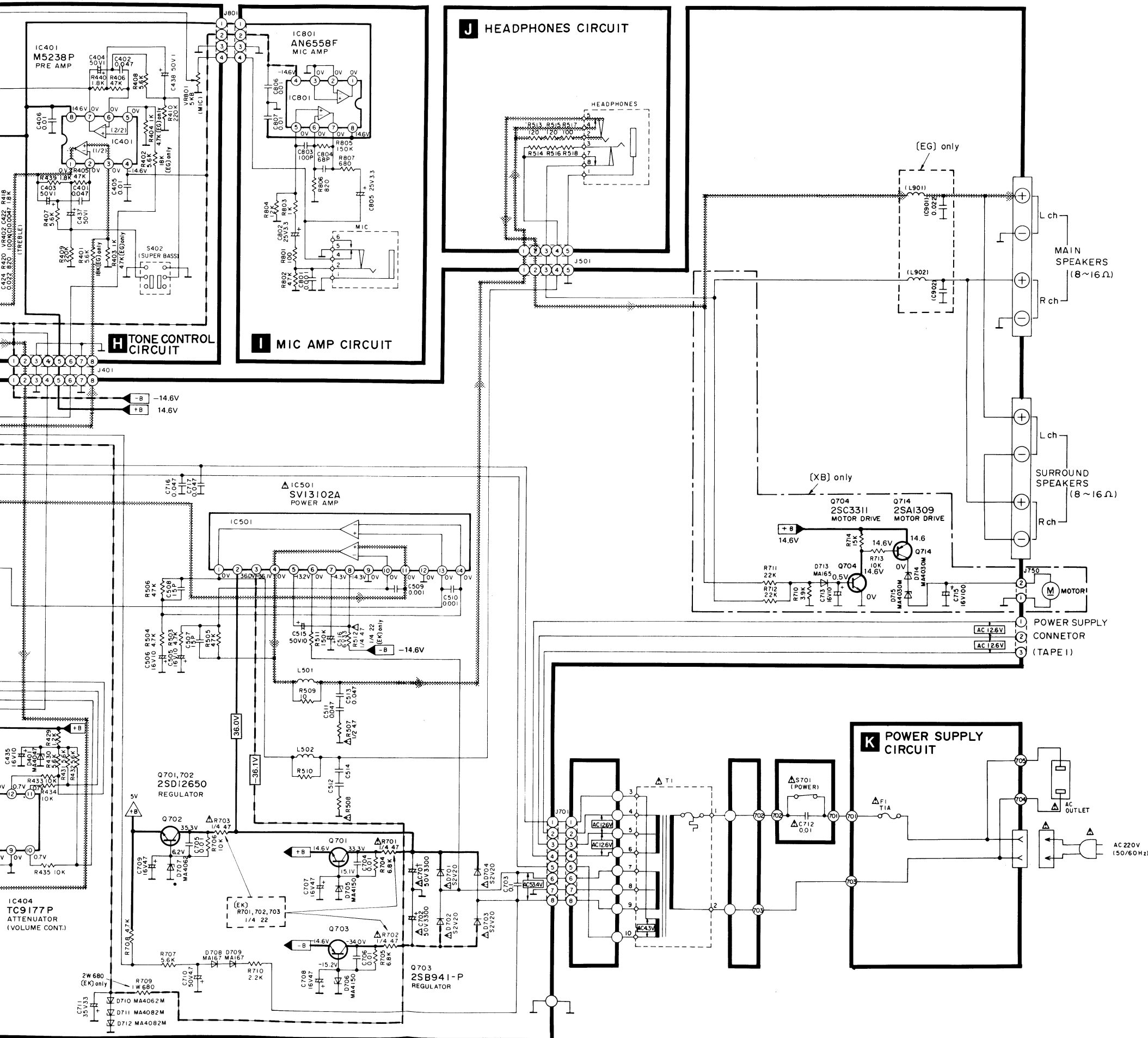
(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

1. S401 : AV surround on/off switch in "off" position.
2. S402 : Super-bass switch in "off" position.
3. S601~S606 : Input selector switches in "off" position.
S601: phono, S602: tuner,
S603: Video disc/aux, S604: tape 1,
S605: VTR/tape 2, S606: CD
4. S607, S608 : Balance switches.
S607: left, S608: right
5. S609 : Muting switch.
6. S701 : Power switch.
($\blacksquare$ off, $\blacktriangle$ on)
7. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
8. Left-channel phono signal route.
 Microphone signal.
 Phase difference signal.
 $\oplus$ B voltage line $\ominus$ B voltage line.
9. Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

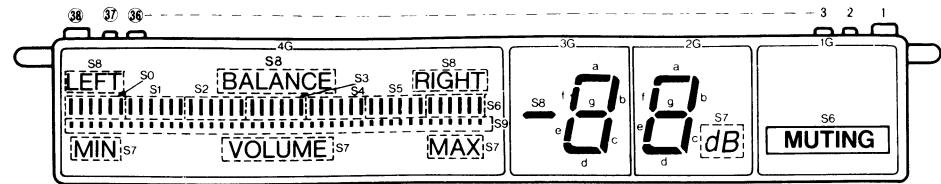
* Caution!

- IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
- * Cover the parts boxes made of plastics with aluminum foil.
 - * Ground the soldering iron.
 - * Put a conductive mat on the work table.
 - * Do not touch the legs of IC or LSI with the fingers directly.



● Flourescent display tube (FL)

* Grid connections



Pin No.	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
Name of Terminal	F 2	F 2	N P	4 G	N P	N P	N P	N P	N P	N P	N P	4 G	N P	N P	N P	N P	N P	N P	4 G
Pin No.	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Name of Terminal	S 9	3 G	S 8	S 0	S 1	3 G	S 2	2 G	S 3	2 G	S 4	1 G	S 5	S 6	S 7	1 G	N P	F 1	F 1

* Anode connections

	4G	3G	2G	1G
S0		a	a	—
S1		b	b	—
S2		c	c	—
S3		d	d	—
S4		e	e	—
S5		f	f	—
S6		g	g	MUTING
S7	MIN VOLUME MAX	—	dB	—
S8	LEFT BALANCE RIGHT	—	—	—
S9	 (×7)	—	—	—

■ REPLACEMENT PARTS LIST

- Notes:**
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
 2. Important safety notice: Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
 3. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
 4. The parenthesized numbers in the column of description stand for the quantity per set.

Ref. No.	Part No.	Part Code	Description	Ref. No.	Part No.	Part Code	Description
INTEGRATED CIRCUITS				T1 (XA, XB,) (PA, PE)	SLT5M506	001 202 9062 8	POWER TRANSFORMER
IC101	AN6558F	001 060 4009 1	I.C., EQUALIZER	COMPONENT COMBINATIONS			
IC201	TC9164N	001 061 0204 1	I.C., INPUT SELECTOR	Z601	EXFP8331MW	001 230 1628 6	C-R COMBINATION
IC301	M5238P	001 060 8887 7	I.C., SHIFT	Z602	EXBP85223JR	001 230 2835 7	COMPONENT COMBINATION
IC302	AN6554F	001 060 2992 1	I.C., MIXING	OSCILLATORS			
IC401	M5238P	001 060 8887 7	I.C., PRE AMP	X601	SVFCSA300MG	001 241 1296 5	CERAMIC FILTER
IC402	SVIUPC4570C	001 060 8992 7	I.C., TONE AMP	DISPLAYS			
IC403	M5238P	001 060 8887 7	I.C., AMP	FL601	SAD4BT63ZK	001 001 0508 4	DISPLAY
IC404	TC9177P	001 061 0839 2	I.C., VOLUME CONTROL	FUSES			
IC501	SVI3102A	001 061 4832 3	INTEGRATED CIRCUIT	F1 (EK)	XBA2C10TB0	002 380 1351 1	CURRENT FUSE, T1A250V
IC601	LC6554D-3230	001 061 4016 7	I.C., MICRO COMPUTER	F1 (EX, EH, E1) (EF, EB, EW) (XL, XA, XB) (PA, PE, EG)	XBA2C10NS5	002 380 0404 9	FUSE, T1A250V
IC602	MN4030B	001 060 6553 4	I.C., LOGIC	F2 Δ (EW, XA, XB) (PA, PE, EG)	XBAS2A2001	002 380 0410 1	FUSE, T2A250V
IC603	MN4013B	001 060 3656 0	I.C., LOGIC	SWITCHES			
IC801	AN6558F	001 060 4009 1	I.C., MIC AMP	S401, S402	SSH1198	003 435 5171 7	SW
TRANSISTORS				S601, S602	EVQQAC05G	003 439 2072 1	SW
Q401	2SA1309A-R	001 030 6079 7	TRANSISTOR	S603, S604	EVQQAC05G	003 439 2072 1	SW
Q501, Q502	2SK301	001 030 2428 2	TRANSISTOR	S605, S606	EVQQAC05G	003 439 2072 1	SW
Q601	2SA1309A-R	001 030 6079 7	TRANSISTOR	S607, S608	EVQQAC05G	003 439 2072 1	SW
Q602, Q603	UN4211	001 030 4033 9	TRANSISTOR	S609	EVQQAC05G	003 439 2072 1	SW
Q604	2SC3311A-Q	001 030 5279 5	TRANSISTOR	S701 Δ	ESB8249V	003 435 5877 0	POWER SW
Q605	UN4211	001 030 4033 9	TRANSISTOR	S702 (XA, XB) (PA, PE)	ESE37263	003 430 2327 2	SW
Q607	2SC3311A-Q	001 030 5279 5	TRANSISTOR	CABINET AND CHASSIS			
Q609	UN4211	001 030 4033 9	TRANSISTOR	1	SGYUX840-KN	016 840 7548 4	FRONT PANEL (K)
Q701, Q702	2SD1265-0	001 030 2632 6	TRANSISTOR	1-1	SGU538A	016 842 1597 9	GLASS PLATE
Q703	2SB941-P	001 030 2696 4	TRANSISTOR	2	SGX9028A	016 846 3749 3	ORNAMENT
Q704 (XB)	2SC3311A-Q	001 030 5279 5	TRANSISTOR	3	SDU323A	016 842 1598 8	FILTER
Q714 (XB)	2SA1309A-R	001 030 6079 7	TRANSISTOR	4	SGL238-1	016 846 3751 9	ORNAMENT
DIODES				5	SGL242	016 846 3750 0	ORNAMENT
D201	MA4051-M	001 032 4947 6	DIODE	6	SBC666-1	016 702 6076 0	BUTTON
D203, D204	MA165	001 032 0494 0	DIODE	7	SBC928	016 702 6969 2	KNOB
D205, D206	MA165	001 032 0494 0	DIODE	8	SBN1221	016 700 1974 5	KNOB
D401	MA4047M	001 032 6186 5	DIODE	9	SBN1224	016 700 1972 7	KNOB
D403, D404	MA165	001 032 0494 0	DIODE	10	SBC925B	016 702 7115 6	BUTTON
D405, D406	MA165	001 032 0494 0	DIODE	11	SBC926	016 702 6963 8	KNOB
D601, D603	MA165	001 032 0494 0	DIODE	12	SBC927A	016 702 6956 7	KNOB
D604, D605	MA165	001 032 0494 0	DIODE	13	SKC2050K961	016 800 3040 7	CABINET ASS'Y
D606, D607	MA165	001 032 0494 0	DIODE	(EX, EH, E1) (EF, EB, EW) (EK, XL, XA) (PA, PE, EG)			
D608, D609	MA165	001 032 0494 0	DIODE	13 (XB)	SKC2050K962	016 800 3126 2	CABINET BODY
D610, D611	MA165	001 032 0494 0	DIODE	14	SJJ130-3	003 400 7580 9	JACK
D612	MA165	001 032 0494 0	DIODE	15	SJJ63D	003 400 6041 5	JACK
D613	MA4056-M	001 032 7209 1	DIODE	16	SJJ63E	003 400 4329 0	JACK, HEADPHONE
D614, D615	LN846RP-C	001 032 8341 4	LED, INPUT	17	SUS832	016 726 0938 1	SPRING
D616, D617	LN846RP-C	001 032 8341 4	LED, INPUT	18	SHE185	016 918 0330 9	SPACER
D618	LN846RP-C	001 032 8341 4	LED, INPUT	19	SMC1261	016 601 0617 9	SHIELD COVER
D619	LN018315P	001 032 9292 2	LED, CD INPUT	20	SMC1262	016 601 0616 0	SHIELD COVER
D620, D621	MA165	001 032 0494 0	DIODE	21	SMC6379	016 601 0538 7	SHIELD COVER
D701, D702 Δ	SVDS2V20	001 032 1343 0	RECTIFIER	22	SMC1263	016 601 0615 1	SHIELD COVER
D703, D704 Δ	SVDS2V20	001 032 1343 0	RECTIFIER	23	SUW3033	016 650 5282 7	BRACKET
D705, D706	MA4150M	001 032 4961 8	DIODE	24	SUW3040	016 650 5281 8	BRACKET
D707	MA4062-M	001 032 7211 7	DIODE	25	SKU11650-1	016 802 2190 8	BOTTOM BOARD
D708, D709	MA167	001 032 4142 5	DIODE	26	SKL307	016 828 0325 7	FOOT
D710	MA4062-M	001 032 7211 7	DIODE	27	SGP7031-1A	016 840 7706 8	REAR PANEL
D711, D712	MA4082M	001 032 4955 6	DIODE	(EK)	SGP7031-2A	016 840 7841 2	REAR PANEL
D714, D715 (XB)	MA4030M	001 032 5807 3	DIODE	27 (XA)	SGP7031-3A	016 840 7842 1	REAR PANEL
VARIABLE RESISTORS				27 (XL)	SGP7031-4A	016 840 7843 0	REAR PANEL
VR401, VR402	EWC2XAF20C15	001 174 8804 3	VARIABLE RESISTOR	27 (XB)			
VR601	EVQWX2F2040B	001 174 8803 4	VR				
VR801	EVH0XAF20B53	001 174 8846 3	V.R.				
COILS AND TRANSFORMERS							
L501, L502	SLQY07G-40	001 211 2149 9	CHOKE COIL				
L601	ELEXT101KA	001 211 3878 9	COIL				
L602	ELEXT120KA	001 211 3879 8	COIL				
L603, L604	ELEXT330KA	001 211 3880 5	COIL				
L901, L902 (EG)	SLQY07G-40	001 211 2149 9	CHOKE COIL				
L903 (EG)	SLQZ650MH49	001 210 7126 1	COIL				
T1 (EX, EH, E1) (EF, EB, EW) (EG)	SLT5M504	001 202 9072 6	POWER TRANSFORMER				
T1 (EK, XL)	SLT5M505	001 202 9022 6	POWER TRANSFORMER				

Ref. No.	Part No.	Part Code	Description
27 (PA, PE)	SGP7031-5A	016 840 7845 8	REAR PANEL
27 (EX, EH, E1) (EF, EB)	SGP7031A	016 840 7758 6	REAR PANEL
27 (EG)	SGP7031B	016 840 7846 7	REAR PANEL
27 (EW)	SGP7031C	016 840 7847 6	REAR PANEL
28	SJF3062-2NK	003 410 8074 2	TERMINAL PLATE
29	SJF4818-1	003 410 7347 0	TERMINAL BOARD
30	SJS306	003 403 4936 8	CONNECTOR
31	SJS804	003 403 4910 8	CONNECTOR
32 (EX, EH, E1) (EF, EB, EW) (EK, XA, XB) (PA, PE, EG)	SJS9231A	003 410 5984 5	SOCKET COVER
32 (XL)	SJS9234A	003 400 5921 6	AC INLET COVER
33 (EK)	SJS9332B	003 403 7377 5	CONNECTOR
34 (EX, EH, E1) (EF, EB, EW) (EG)	SHR301	016 645 0044 0	CLAMPER
35	SJS5425	003 400 5926 1	SOCKET(4P)
35	SJS5629	003 400 5917 2	CONNECTOR
35	SJS5633	003 400 5929 8	CONNECTOR
35	SJS5715	003 400 6034 4	SOCKET(7P)
35	SJS5717	003 400 6573 2	SOCKET
36	SJT783	003 410 6001 7	CONTACT
37	SNE2053	005 500 0720 0	SCREW
38	SNE2118	005 500 5011 2	SCREW
39	SNE2123	005 500 4920 8	SCREW
40	SNE2129-1	005 500 7938 6	SCREW
41	SNE4021	005 507 0372 5	NUT
42	XTB3+6FFZ	005 501 1590 3	SCREW
43 (EX, EH, E1) (EF, EB, EW) (EK, XL, XA) (PA, PE, EG)	XTB3+8JFZ1	005 501 2523 0	SCREW
44	XTB3+8G	005 501 2607 7	SCREW
45	XTW3+15T	005 501 1353 4	SCREW
46	XTWS3+8T	005 501 3311 6	SCREW
47	XTB3+8FFR	005 501 3569 2	SCREW
48	XTB3+8JFZ	005 501 0138 3	SCREW
49	SJT30840LX-V	003 410 5998 9	LUG TERMINAL
49	SJT31243-V	003 410 7349 8	CONNECTOR
50	SJT30645JQ	003 410 8079 7	TERMINAL PLATE
51	SJS50678JQ	003 403 7155 7	CONNECTOR
52	SJT30345JQ	003 410 8077 9	TERMINAL PLATE

Ref. No.	Part No.	Part Code	Description
PACKINGS			
P1	SPPT40	016 978 0437 3	PROTECTION COVER
P2 (EX, EH, E1) (EB, EW, EK) (XL, XA, XB) (PA, PB, EG)	SPG5933	016 971 5033 4	CARTON BOX
P2 (EF)	SPG5934	016 971 5072 7	CARTON BOX
P3	SPS4914-1	016 977 3328 0	PAD
P4	SPS4915-2		PAD
P5	SPS4999	016 977 3344 0	PAD
ACCESSORIES			
A1 (EX, EH, E1) (EF, EB, EW) (EG)	SFDCAC05E03	003 490 4809 5	POWER CORD
A1 (XA)	SJA168-1	003 490 4122 9	POWER CORD
A1 (PA, PE)			
A1 (XL)	SJA173	003 490 4161 2	POWER CORD

Ref. No.	Part No.	Part Code	Description	Ref. No.	Part No.	Part Code	Description
27 (PA, PE)	SGP7031-5A	016 840 7845 8	REAR PANEL	53	SJS50378JQ	003 403 7153 9	CONNECTOR
27 (EX, EH, EI) (EF, EB)	SGP7031A	016 840 7758 6	REAR PANEL	54 (XB)	SJT3213	003 410 6011 5	CONNECTOR
27 (EG)	SGP7031B	016 840 7846 7	REAR PANEL	54	SJT3319	003 403 3892 7	CONNECTOR
27 (EW)	SGP7031C	016 840 7847 6	REAR PANEL	54	SJT3415	003 403 3909 5	POST(4P)
28	SJF3062-2NK	003 410 8074 2	TERMINAL PLATE	54	SJT3611	003 410 6000 8	CONNECTOR
29	SJF4818-1	003 410 7347 0	TERMINAL BOARD	54	SJT3709	003 403 4232 3	CONNECTOR
30	SJS306	003 403 4936 8	CONNECTOR	55	SJS9231-1B	003 400 7442 8	SOCKET
31	SJS804	003 403 4910 8	CONNECTOR	(EX, EH, EI)			
32	SJS9231A	003 410 5984 5	SOCKET COVER	(EB, EF, EW)			
(EX, EH, EI)				(EK, XA, XB)			
(EF, EB, EW)				(PA, PE, EG)			
(EK, XA, XB)				55	SJS9234B	003 400 5922 5	AC INLET
(PA, PE, EG)				(XL)			
32	SJS9234A	003 400 5921 6	AC INLET COVER	56	SJS9225	003 400 3946 5	AC OUTLET
(XL)				(EX, EH, EI)			
33	SJS9332B	003 403 7377 5	CONNECTOR	(EF, EB, EW)			
(EK)				(XA, EG)			
34	SHR301	016 645 0044 0	CLAMPER	(PA, PE)			
(EX, EH, EI)				56	SJS9332A	003 403 7376 6	CONNECTOR
(EF, EB, EW)				(EK)			
(EG)				57	SJT30545JQ	003 410 8078 8	CONNECTOR
35	SJS5425	003 400 5926 1	SOCKET(4P)	58	SJS50578JQ	003 403 7154 8	CONNECTOR
35	SJS5629	003 400 5917 2	CONNECTOR	59	SJS5431	003 400 5927 0	SOCKET
35	SJS5633	003 400 5929 8	CONNECTOR	60	SJS5331	003 400 5924 3	CONNECTOR
35	SJS5715	003 400 6034 4	SOCKET(7P)	60	SJT388	003 410 6092 8	LUG TERMINAL
35	SJS5717	003 400 6573 2	SOCKET	(EX, EH, EI)			
36	SJT783	003 410 6001 7	CONTACT	(EB, EF, EW)			
37	SNE2053	005 500 0720 0	SCREW	(XA, XB)			
38	SNE2118	005 500 5011 2	SCREW	(PA, PE)			
39	SNE2123	005 500 4920 8	SCREW	61	SJT785	003 410 6015 1	CONTACT
40	SNE2129-1	005 500 7938 6	SCREW	62	SJP9205-2Y	003 492 6791 0	SHORTING PIN
41	SNE4021	005 507 0372 5	NUT	63	XTB3+8JFZ	005 501 0138 3	SCREW
42	XTB3+6FFZ	005 501 1590 3	SCREW	64	SHD3X36J	016 634 0164 4	BRACING STRUT
43	XTB3+8JFZ1	005 501 2523 0	SCREW	65	SHE143	016 918 0045 1	FAN
(EX, EH, EI)				(XB)			
(EF, EB, EW)				65	XYN3+C6FZ	005 503 0168 7	SCREW
(EK, XL, XA)				(XA, XB,)			
(PA, PE, EG)				(PA, PE)			
44	XTB3+8G	005 501 2607 7	SCREW	66	SUS271	016 726 0357 6	SPRING
45	XTW3+15T	005 501 1353 4	SCREW	(XB)			
46	XTWS3+8T	005 501 3311 6	SCREW	67	SME95	016 632 0143 9	ANGLE
47	XTB3+8FFR	005 501 3569 2	SCREW	(XB)			
48	XTB3+8JFZ	005 501 0138 3	SCREW	68	MMN6C2RKMS	002 310 0999 3	DC MOTOR 0.24W
49	SJT30840LX-V	003 410 5998 9	LUG TERMINAL	69	SME97-1	016 632 1309 1	ANGLE
49	SJT31243-V	003 410 7349 8	CONNECTOR	(XB)			
50	SJT30645JQ	003 410 8079 7	TERMINAL PLATE	(XB)			
51	SJS50678JQ	003 403 7155 7	CONNECTOR	(XB)			
52	SJT30345JQ	003 410 8077 9	TERMINAL PLATE				

Ref. No.	Part No.	Part Code	Description	Ref. No.	Part No.	Part Code	Description
PACKINGS				A1	SJA183	003 490 4873 7	POWER CORD
P1	SPP740	016 978 0437 3	PROTECTION COVER	(XB)			
P2	SPG5933	016 971 5033 4	CARTON BOX	A1	SJA188	003 490 5443 1	POWER CORD
(EX, EH, EI)				(EK)			
(EB, EW, EK)				A2	SJP9215	003 402 1437 9	AC PLUG ADAPTOR
(XL, XA, XB)				(XA, XB)			
(PA, PB, EG)				(PA, PE)			
P2	SPG5934	016 971 5072 7	CARTON BOX	A3	SQF12970-1	016 983 5266 3	INSTRUCTION BOOK
(EF)				(EX, EH, EI)			
P3	SPS4914-1	016 977 3328 0	PAD	(EB, EW)			
P4	SPS4915-2		PAD	A3	SQF12971	016 983 5154 0	INSTRUCTION BOOK
P5	SPS4999	016 977 3344 0	PAD	(EK)			
ACCESSORIES				A3	SQF12972-1	016 983 5312 4	INSTRUCTION BOOK
A1	SFDAC05E03	003 490 4809 5	POWER CORD	(EF, XA)			
(EX, EH, EI)				A3	SQF12973	016 983 5238 7	INSTRUCTION BOOK
(EF, EB, EW)				(EG)			
(EG)				A3	SQF12974	016 983 5237 8	INSTRUCTION BOOK
A1	SJA168-1	003 490 4122 9	POWER CORD	(EI)			
(XA)				A3	SQF12975	016 983 5236 9	INSTRUCTION BOOK
(PA, PE)				(XL, XB)			
A1	SJA173	003 490 4161 2	POWER CORD	A3	SQF12976	016 983 5235 0	INSTRUCTION BOOK
(XL)				(PA, PE)			

